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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6463 (1972): Burs, Antrum (Tilley's Pattern) [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 OCTOBER 1979
TO
IS:6463-1972 SPECIFICATION FOR BURS,
ANTRUM (TILLEY'S PATTERN)

Alteration

(Page 2, clause 6.2) - Substitute the following
for the existing clause:

"6.2 Corrosion Resistance - The instrument shall
satisfy the boiling and autoclaving test as specified
in IS:7531-1975 'Method for boiling and autoclaving
test for corrosion resistance of stainless steel
surgical instruments'."

(CPDC 26)

Reprography Unit, ISI, New Delhi

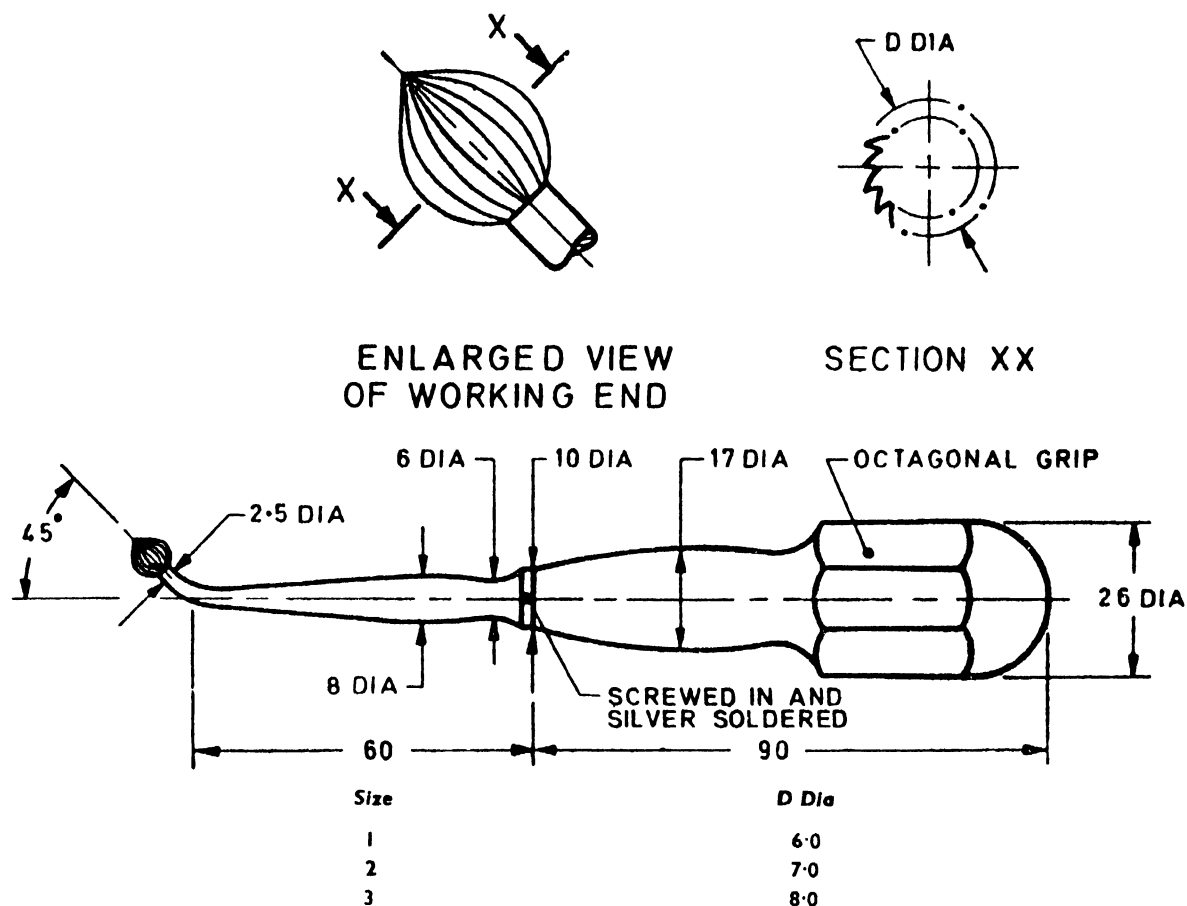
Surgical Instruments Sectional Committee, CPDC II: Precision Type Surgical Instruments Subcommittee, CPDC II: 5 [Ref: Doc: CPDC II (620)]



Indian Standard

SPECIFICATION FOR BURS, ANTRUM (TILLEY'S PATTERN)

1. **Scope** — Specifies dimensional and other requirements of Tilley's antrum burs (6, 7 and 8 mm sizes) used by ENT surgeons.
2. **Shape and Dimensions** — As shown in Fig. 1.



All dimensions in millimetres.
FIG. 1 ANTRUM BURS (TILLEY'S PATTERN)

3. Materials

3.1 The working end shall be of stainless steel conforming to Designation 30Cr13 of Schedule V of IS: 1570-1961 'Schedules for wrought steels for general engineering purposes' or having the following composition:

	Percent
Carbon	0.35 to 0.45
Silicon	0.6 Max
Manganese	0.6 Max
Chromium	12 to 14
Nickel	0.6 Max
Sulphur	0.03 Max
Phosphorus	0.03 Max

3.2 Handle shall be of stainless steel conforming to Designation 30Cr13 as above or brass.

Adopted 24 February 1972

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Gr 1

4. Workmanship and Finish

4.1 The working end shall be symmetrical. Burring edges shall be concentric, regular in spacing, well cut, sharp, clean, and free from nicks, high spots, feathers and pits. The instrument shall be balanced.

4.2 All edges except the burring edges shall be even, rounded and nowhere sharp. All surfaces shall be smooth and free from burrs, pits, cracks and other surface flaws.

4.3 Handles shall be hollow and shall be fitted to the working end by screwing in and silver soldering. The silver soldering shall be sound and neat.

4.4 The working end and the handle when made of stainless steel shall be passivated and polished bright. The handle when made of brass shall be plated chromium over nickel and the plating shall conform to Service Grade No. 2 of IS: 4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys'.

5. Heat Treatment — The bur portion shall be hardened and tempered to a hardness of 430 to 490 HV.

6. Tests

6.1 Performance Test — Drill a hole 1 mm less in diameter than the size of the bur in a fresh piece of sheep or goat rib. Bur the hole to size using the instrument. The burred hole shall be clean and the burring edges shall not get damaged.

6.2 Corrosion Resistance Test for Stainless Steel Components — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool.

Make up the solution as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Distilled water [see IS : 1070-1960 Specification for water, distilled quality (<i>revised</i>)]	90.0 ml

No red stains or spots on the sample shall be allowed, but dulling of the polished surface may be permitted.

7. Marking — Mark with the following:

- a) Manufacturer's name, initials or recognized trade-mark;
- b) Words 'Stainless Steel' on bur shank; and
- c) Size of the bur.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier ensuring that the burring edges are protected from getting damaged in handling.